Abstract of the Disclosure:

Mobile radio receivers in a mobile radio system are synchronized. A first synchronization channel is provided, which has a first frequency and via which a code which is known to all the mobile radio receivers and to all the base stations of the mobile radio system is transmitted with a signal. The transmission from a base station to a mobile radio receiver delays the signal by an unknown time period and the first frequency is displaced by the transmission to a second frequency. The method includes a correlation and sampling of the received signal, digital filtering of the correlated and sampled signal, squaring of the filtered signal, determination of the maximum signal level of the squared signal, estimation of the unknown time period with the maximum signal level, despreading of the received signal with the known code, taking into account the just-estimated time period, and fine-tuning of the second frequency to the first frequency.

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